

CHAPTER FOUR

Science of Suffering: History of Pathology

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General Works

Adamson, Peter, ed. *Health: A History*. Oxford University Press, 2019.

Alberti, Samuel J. M. M. *Morbid Curiosities: Medical Museums in Nineteenth-Century Britain*. Oxford: Oxford University Press, 2011.

Aronowitz, Robert A. *Making Sense of Illness: Science, Society, and Disease*. Cambridge: Cambridge University Press, 1999

Beneduce, Chiara, and Denise Vincenti. *Oeconomia corporis: The Body's Normal and Pathological Constitution at the Intersection of Philosophy and Medicine*. Pisa: Edizioni ETS, 2018.

Bertoloni Meli, Domenico. *Visualizing Disease: The Art and History of Pathological Illustrations*. Chicago: University of Chicago Press, 2017.

Canguilhem, Georges. *The Normal and the Pathological*. Trans. Carolyn R. Fawcett and Robert S. Cohen. New York: Zone Books, 1989

Caplan, Arthur L., James J. McCartney, and Dominic A. Sisti, eds. *Health, Disease, and Illness: Concepts in Medicine*. Washington, D.C.: Georgetown University Press, 2004

Carter, K. Codell. *The Rise of Causal Concepts of Disease: Case Histories*. Aldershot: Ashgate, 2003

- Cassell, Eric J. *The Nature of Suffering and the Goals of Medicine*. 2nd ed. New York: Oxford University Press, 1991, 2004.
- Cryle, Peter M. and Elizabeth Stephens. *Normality: A Critical Genealogy*. Chicago: University of Chicago Press, 2017.
- Debons, Delphine, Antoine Fleury, and Jean-François Pitteloud. *Katyn et la Suisse: experts et expertises médicales dans les crises humanitaires 1920-2007*, Geneva: Georg Editeur, 2009.
- Duffin, Jacalyn. *Lovers and Livers; Disease Concepts in History. The Joanne Goodman Lectures*. Toronto: University of Toronto Press, 2005
- Edwards, Laurie. *In the Kingdom of the Sick: A Social History of Chronic Illness in America*. New York: Walker & Co., 2013.
- Ferngren, Gary. *Medicine and Religion: A Historical Introduction*. Baltimore: Johns Hopkins University Press, 2014.
- Gaudillière, Jean-Paul, and Ilana Löwy, eds. *Heredity and Infection: The History of Disease Transmission*. London; New York: Routledge, 2001
- Geison, Gerald L. *The Private Science of Louis Pasteur*. Princeton, N.J.: Princeton University Press, 1995
- Gradmann, Christoph. *Laboratory Disease: Robert Koch's Medical Bacteriology*, trans. Elborg Forster. Baltimore: Johns Hopkins University Press, 2009.
- Grmek, Mirko, *Pathological Realities: Essays on Disease, Experiments, and History*, ed., trans., Pierre-Olivier Méthot. New York: Fordham University Press, 2019.
- Hacking, Ian. *The Emergence of Probability; A Philosophical Study of Early Ideas about Probability, Induction and Statistical Inference*. Cambridge Univ. Press, 1975.
- Harrison, Mark. *Disease and the Modern World: 1500 to the Present Day*. Cambridge and Malden, Mass.: Polity, 2004
- Hudson, Robert. *Disease and Its Control: The Shaping of Modern Thought*. Westport: Praeger/Greenwood, 1983
- Huneman, Philippe, Gérard Lambert, and Marc Silberstein. *Classification, Disease and Evidence: New Essays in the Philosophy of Medicine*. Springer, 2015.
- Keating, Peter, and Alberto Cambrosio. *Biomedical Platforms: Realigning the Normal and the Pathological in Late-Twentieth-Century Medicine*. Cambridge, Mass.: MIT Press, 2006.

- Keating, Peter and Alberto Cambrosio. *Biomedical Platforms: Realigning the Normal and the Pathological in Late-Twentieth-Century Medicine*. MIT Press, 2009.
- King, Lester S. *Medical Thinking: A Historical Preface*. Princeton, N.J.: Princeton University Press, 1982
- Kusukawa, Sachiko, and Ian Maclean, eds. *Transmitting Knowledge: Words, Images, and Instruments in Early Modern Europe*. Oxford: New York: Oxford University Press, 2006.
- Lie, Anne Kveim, and Jeremy A. Greene. From Ariadne's Thread to the Labyrinth Itself - Nosology and the Infrastructure of Modern Medicine. *New England Journal of Medicine* 382.13 (2020); 1273-77.
- Lishman, Suzy. *A History of Pathology in 50 Objects*. London: Royal College of Pathologists. 2012.
- Luttenberger, Franz. Excellence and Chance: The Nobel Prize: Case of E. Von Behring and É. Roux. *History and Philosophy of Life Sciences* 18 (1996), 225-38
- Maclean, Ian, *Logic, Signs, and Nature in the Renaissance: The Case of Learned Medicine*. Cambridge University Press, 2002.
- Major, Ralph H. *Classic Descriptions of Disease*. Springfield: Charles C. Thomas, 1945, 1978
- Matlin, Karl, Jane Maienschein, and Manfred Laublicher, eds. *Visions of Cell Biology: Reflections Inspired by Cowdry's General Cytology*. Chicago and London: University of Chicago Press, 2018.
- Maulitz, Russell C. *Morbid Appearances: The Anatomy of Pathology in the Early Nineteenth Century*. Cambridge: Cambridge University Press, 1987
- Pelis, Kim. *Charles Nicolle, Pasteur's Imperial Missionary: Typhus and Tunisia*. Rochester, N.Y.: University of Rochester Press, 2006
- Reynolds, Andrew. *The Third Lens: Metaphor and the Creation of Modern Cell Biology*. Chicago: University of Chicago Press, 2018.
- Risse, Guenter B. History of the Concepts of Health and Disease. In *Encyclopedia of Bioethics*, ed. Warren T. Reich, 2:578–91. 4 vols. New York: Free Press, 1978
- Rose, Jeffrey. Sick Individuals and Sick Populations. *International Journal of Epidemiology* 14 (1985), 32–8
- Rosenberg, Charles E., and Janet Golden, eds. *Framing Disease: Studies in Cultural History*.

- New Brunswick, N.J.: Rutgers University Press, 1992
- Rousseau, George S., Miranda Gill, David B. Haycock, and Malte Herwig, eds. *Framing and Imagining Disease in Cultural History*. London: Palgrave Macmillan, 2003
- Sacks, Oliver. *An Anthropologist on Mars: Seven Paradoxical Tales*. Toronto: Alfred A. Knopf, 1995
- Sontag, Susan. *Illness as Metaphor*. New York: Farrar, Strauss, and Giroux, 1977
- Stahnisch, Frank W. *Medicine, Life, and Function: Experimental Strategies and Medical Modernity at the Intersection of Pathology and Physiology*. Bochum: Projektverlag, 2012.
- Stenenga, Jacob. *Care and Cure: An Introduction to the Philosophy of Medicine*. University of Chicago Press, 2018.
- Van den Tweel, J.G., ed. *Pioneers in Pathology*. Cham: Springer, 2017.
- Van Osselaer, Tine, Henk de Smaele, and Kaat Wils, eds. *Sign or Symptom: Exceptional Corporeal Phenomena in Religion and Medicine in the Nineteenth and Twentieth Centuries* (Leuven University Press, 2017).
- Weisz, George. *Divide and Conquer: A Comparative History of Medical Specialization*. New York: Oxford University Press, 2006.
- Ziporyn, Terra. *Nameless Diseases*. New Brunswick, N.J.: Rutgers University Press, 1992

Genetics

- Brinkworth, Jessica F. Infectious disease and the diversification of the human genome, *Human Biology* 89.1 (2017): 47-65.
- DeJong-Lambert, William. *The Cold War Politics of Genetic Research: an Introduction to the Lysenko Affair*. Dordrecht: Springer, 2012.
- Frezza, Giulia, and Mauro Capocci. Thomas Hunt Morgan and the invisible gene: The right tool for the job. *History and Philosophy of the Life Sciences* 40.2 (2018): 31.
- Judson, Horace Freeland. *The Eighth Day of Creation: Makers of the Revolution in Biology*. New York: Simon and Schuster, 1979.
- Keller, Evelyn Fox. *The Century of the Gene*. Cambridge, Mass.: Harvard University Press, 2000

Kovalchuk, Igor, and Olga Kovalchuk. *Epigenetics in Health and Disease*. Upper Saddle River, NJ: FT Press, 2012.

Maddox, Brenda, *Rosalind Franklin: The Dark Lady of DNA*. Harper, 2003.

Moalem, Sharon, Maire E. Percy Theo P. A. Kruck, Richard R. Gelbart. Epidemic pathogenic selection: an explanation for hereditary hemochromatosis? *Medical Hypotheses* 59.3 (2002): 325–29.

Mukherjee, Siddhartha. *The Gene: an Intimate History*. New York: Scribner, 2016.

Olby, Robert. *The Path to the Double Helix*. Seattle: University of Washington, 1974.

Rabinow, Paul. *Making PCR: A Story of Biotechnology*. U Chicago Press, 1997.

Summers, William C. *Félix d'Hérelle and the Origins of Molecular Biology*. New Haven: Yale University Press, 1999

Wailoo, Keith, and Stephen Pemberton. *The Troubled Dream of Genetic Medicine: Ethnicity and Innovation in Tay-Sachs, Cystic Fibrosis, and Sickle Cell Disease*. Baltimore: Johns Hopkins University Press, 2006

Wall, W.J. *The Search for Human Chromosomes: A History of Discovery*. Springer, 2016.

Forensics

Black, Sue. *All that Remains: A Renowned Forensic Scientist on Death, Mortality, and Solving Crimes*. Doubleday 2018

Dreyfus, Jean-Marc and Élisabeth Gessat-Anstett, eds. *Human Remains and Mass Violence: Methodological Approaches*. Manchester: Manchester University Press, 2015.

Jessee, Erin. *Promoting Reconciliation through Exhuming and Identifying Victims in the 1994 Rwandan Genocide*. Waterloo, Ontario: Centre for International Governance Innovation, 2012.

Christianson, Scott, and Lowell J. Levine. *Bodies of Evidence: Forensic Science and Crime*. Guilford, Conn.: The Lyons Press, 2006

Watson. Katherine D. *Forensic Medicine in Western Society: A History*. Milton Park, Abingdon: Routledge, 2010.

On Antiquity, the Middle Ages, or Early Modern

Bates, Don, ed. *Knowledge and the Scholarly Medical Traditions*. Cambridge: Cambridge

University Press, 1995

Ben Rejeb, Abdelkhalek, and Najet Ghazouani. *La pathologie dans la médecine arabo-islamique*. Carthage: Académie Tunisienne des Sciences, des Lettres et des Arts Beit al-Hikma, 2010.

David, Rosalie, ed. *Egyptian Mummies and Modern Science*. Cambridge: Cambridge University Press, 2008

De Ceglia, Francesco Paolo, ed. *The Body of Evidence: Corpses and Proofs in Early Modern European Medicine*. Leiden: Brill, 2020.

De Renzi, Silvia, Marco Bresadola, and Maria Conforti. *Pathology in Practice: Diseases and Dissections in Early Modern Europe*. London: Routledge, 2018.

Duffin, Jacalyn. Questioning Medicine in Seventeenth-Century Rome; The Consultations of Paolo Zacchia. *Canadian Bulletin of Medical History* 28.1 (2011): 149-170.

Duffin, Jacalyn. Imaging Disease: The Illustration and Non-illustration of Medical Texts, 1650-1850. In B. Castel, J.A. Leith, and Riley, eds. *Muse and Reason: The Relation of Arts and Sciences 1650-1850*, (Kingston; *Queen's Quarterly* and the Royal Society of Canada), pp. 79-108.

Grmek, Mirko D. *Diseases in the Ancient Greek World*, trans. Mireille Muellner and Leonard Muellner. Baltimore: Johns Hopkins University Press, 1989

Gundert, Beate. Parts and their Roles in Hippocratic Medicine. *Isis* 83 (1992), 453–65

Hart, Gerald D., ed. *Disease in Ancient Man: A Report of an International Symposium*. I. E. Clark, 1983

Johnston, Ian. *Galen: On Diseases and Symptoms*. Cambridge: Cambridge University Press, 2006

Kalra, Bharti, Manash P. Baruah, and Sanjay Kalra. The *Mahabharata* and reproductive endocrinology. *Indian J of Endocrinological Metabolism* 20.3 (2016): 404-7.

Loviconi, Laetitia. *Physiologie et pathologie de la respiration dans les oeuvres médicales des XIVe et XVe siècles*. Paris: Honoré Champion, 2017.

Menéndez Bueyes, Luis R. *Medicina, enfermedad y muerte en la España tardoantigua: un acercamiento histórico a las patologías de las poblaciones de la época tardorromana e hispanovisigoda (siglos IV-VIII)*, Salamanca: Ediciones de Universidad de Salamanca, 2013

- Paoli, François. *Jean-Baptiste Morgagni, ou, La naissance de la médecine modern*, Paris: Editions Glyphe, 2013.
- Piccioli, Andrea, Valentina Gazzaniga, Paola Catalano. *Bones: Orthopaedic Pathologies in Roman Imperial Age*. Springer, 2015.
- Potter, Paul. Some Principles of Hippocratic Nosology.'In *La maladie et les maladies dans la Collection Hippocratique: 6e Colloque international hippocratique, 1987*, ed. Paul Potter et al., 237–53. Quebec: Sphinx, 1990.
- Taylor, John H, Daniel Antoine, and Marie Vandenbeusch. *Ancient Lives: New Discoveries : Eight Mummies, Eight Stories*. The British Museum 2014.

On Britain

- Burney, Ian A. and Neil Pemberton. *Murder and the Making of English CSI*. Baltimore: Johns Hopkins University Press, 2016.
- Cooter, Roger. *Cultural Meanings of Popular Science: Phrenology and the Organization of Consent in Nineteenth-Century Britain*. Cambridge and New York: Cambridge University Press, 1984
- Matthews, J. R. Almroth Wright, Vaccine Therapy, and British Biometrics: Disciplinary Expertise Versus Statistical Objectivity. In *The Road to Medical Statistics. Clio Medica, vol. 67*, eds. Eileen Magnello and Anne Hardy, 125-47. Amsterdam: Rodopi, 2002
- O'Connor, Erin. *Raw Material: Producing Pathology in Victorian Culture*. Duke University Press, 2000.
- Odell, Robin. *Medical Detectives: The Lives and Cases of Britain's Forensic Five*. Cheltenham: The History Press, 2013.
- Prüll, C. R. Pathology at War 1914-1918: Germany and Britain in Comparison. In *Medicine and Modern Warfare. Clio Medica 55*, eds. Roger Cooter and Stever Sturdy, 131-61. Amsterdam: Rodopi, 1999
- Risse, Guenter B. *New Medical Challenges During the Scottish Enlightenment. Clio medica, vol. 78*. Amsterdam: Rodopi, 2005
- Staffan, Müller-Wille, and Hans-Jörg Rheinberger, eds. *Heredity Produced: at the Crossroads of Biology, Politics, and Culture, 1500-1870*. Cambridge, Mass.: MIT Press, 2007.

Sturdy, S. Scientific Method for Medical Practitioners: The Case Method of Teaching Pathology in Early Twentieth-Century Edinburgh. *Bulletin of the History of Medicine* 81.4 (2007), 760-92

Wallis, Jennifer. *Investigating the Body in the Victorian Asylum: Doctors, Patients, and Practices*. London: Palgrave Macmillan, 2017.

Worboys, Michael. *Spreading Germs: Diseases, Theories, and Medical Practice in Britain, 1865-1900*. Cambridge: Cambridge University Press, 2000.

On Canada

Bernier, Jacques. *Disease, Medicine, and Society in Canada: A Historical Overview*. Ottawa: Canadian Historical Association, 2003.

Bliss, Michael. *William Osler: A Life in Medicine*. Toronto: University of Toronto Press, 1999

Carr, Ian. *William Boyd: Silver Tongue and Golden Pen*. Canadian Medical Lives Series, no. 15. Markham, Ont.: Hannah Institute and Fitzhenry & Whiteside, 1993

Fabre, Cara. *Challenging Addiction in Canadian Literature and Classrooms*. Toronto: University of Toronto Press, 2016.

Letts, Harry, and John Jacques. *A History of the Canadian Association of Pathologists / Histoire de l'Association canadienne des pathologistes*. 2nd edn. Kingston, Ont.: Allan Graphics, 1994

Rheault, M.J. Pierre Masson: His Influence on the Teaching of Pathology in Canada. *Canadian Journal of Surgery* 28 (1985), 456–7

Rodin, Alvin E. *Oslerian Pathology: An Assessment and Annotated Atlas of Museum Specimens*. Lawrence, Kans.: Coronado Press, 1981

Summers, William C. *Félix d'Hérelle and the Origins of Molecular Biology*. New Haven: Yale University Press, 1999

Waugh, Douglas. *Maudie of McGill: Dr Maude Abbott and the Foundations of Heart Surgery*. Canadian Medical Lives Series, no. 13. Toronto: Hannah Institute and Dundurn Press

On the United States

Grob, Gerald. *The Deadly Truth: A History of Disease in America*. Cambridge, Mass.: Harvard University Press, 2002 [explores why life expectancy is rising]

- Hansen, Bert. *Picturing Medical Progress from Pasteur to Polio: A History of Mass Media Images and Popular Attitudes in America*. New Brunswick, N.J.: Rutgers University Press, 2009
- Lerner, Barron H. *Breast Cancer Wars: Hope, Fear, and the Pursuit of a Cure in Twentieth-Century America*. New York: Oxford University Press, 2004
- Louis, David N. and Robert H. Young. *Keen Minds to explore the Dark Continents of Disease: A History of the Pathology Services at the Massachusetts General Hospital*. Boston, Mass.: Massachusetts General Hospital and Harvard Medical School, 2011.
- King, Lester S. *Transformations in American Medicine: From Benjamin Rush to William Osler*. Baltimore: Johns Hopkins University Press, 1991
- Savitt, Todd Lee. *Medicine and Slavery: The Diseases and Health Care of Blacks in Antebellum Virginia*. Urbana: University of Illinois Press, 1978
- Savitt, Todd Lee, and James Harvey Young, eds. *Disease and Distinctiveness in the American South*. Knoxville: University of Tennessee Press, 1988
- Stone, Paul. *Legacy of Excellence: The Armed Forces Institute of Pathology, 1862-2011*. Fort Detrick, Md.: Borden Institute; Fort Sam Houston, Texas: US Army Medical Dept. Center and School; Washington, D.C., 2011.
- Tomes, Nancy, *The Gospel of Germs: Men, Women, and the Microbe in American Life*. Cambridge, Mass.: Harvard University Press, 1998
- Wailoo, Keith. *Drawing Blood: Technology and Disease Identity in Twentieth-Century America*. Baltimore: Johns Hopkins University Press, 1999
- Warner, John Harley. *The Therapeutic Perspective: Medical Practice, Knowledge, and Identity in America, 1820–1885*. Cambridge, Mass. and London: Harvard University Press, 1986; Princeton University Press, 1997 [on ‘normal. see 89–91].

A Few Histories of Various Diseases

Many other histories of disease can be found in libraries and through online booksellers. See also bibliographies of the other chapters.

- Ballenger, Jesse F. *Self, Senility, and Alzheimer's Disease in Modern America: A History*. Baltimore: Johns Hopkins University Press, 2006

- Cousins, Norman. *Anatomy of an Illness as Perceived by the Patient*. New York: Norton, 1979
- Golden, Janet. *Message in a Bottle: The Making of Fetal Alcohol Syndrome*. Cambridge, Mass.: Harvard University Press, 2005
- Fukuyama, Yokio. 'Congenital Muscular Dystrophy – History and Perspectives,' *Brain and Nerve* 60.1 (2008): 43–51
- Grmek, Mirko D. *History of AIDS*, trans. R.C. Maulitz and J. Duffin, Princeton U Press, 1990.
- Homei, Aya and Michael Worboys. *Fungal Disease in Britain and the United States 1850-2000: Mycoses and Modernity*. Houndmills, Basingstoke: Palgrave Macmillan, 2013.
- Jackson, Mark. *Allergy: The History of a Modern Malady*. London: Reaktion, 2006
- Jackson, Mark. *The Routledge History of Disease*. Abingdon, Oxon: New York, NY: Routledge, 2016.
- Jones, David S. *Broken Hearts: The Tangled History of Cardiac Care*. Baltimore: Johns Hopkins University Press, 2013.
- Kahn, Richard J. *Diseases in the District of Maine 1772 to 1820: The Unpublished Work of Jeremiah Barker, a Rural Physician in New England*. New York: Oxford University Press, 2020.
- Kroker, Kenton. *The Sleep of Others and the Transformations of Sleep Research*. Toronto: University of Toronto Press, 2007
- Kushner, Howard. *A Cursing Brain? The Histories of Tourette Syndrome*. Cambridge, Mass.: Harvard University Press, 2000
- Murray, T. Jock. *Multiple Sclerosis: The History of a Disease*. New York: Demos Medical Publishing, 2005
- Peitzman, Stephen J. *Dropsy Dialysis, Transplant: A Short History of Failing Kidneys*. Baltimore; Johns Hopkins University Press, 2007
- Porter, Roy and G.S. Rousseau. *Gout: The Patrician Malady*. New Haven and London: Yale University Press, 1998
- Reinarz, Jonathan, and Kevin Siena, eds. *A Medical History of Skin: Scratching the Surface*. London: Pickering & Chatto, 2013.
- Schaffner, Anna Katharina. *Exhaustion: A History*. New York: Columbia University Press, 2016.
- Shorter, Edward. *From Paralysis to Fatigue: A History of Psychosomatic Illness in the Modern*

- Era*. New York and Toronto: Free Press, 1992
- Smith, Matthew. *Another Person's Poison: A History of Food Allergy*. New York: Columbia University Press, 2015.
- Timmermann, Carsten. *A History of Lung Cancer: The Recalcitrant Disease*. Basingstoke: Palgrave Macmillan, 2014.
- Tuchman, Arleen Maria. *Diabetes: A History of Race and Disease*, London and New Haven: Yale University Press, 2020
- Volpé, Robert, and Clark Sawin. *Graves' Disease: A Historical Perspective*. Boston: Kluwer Academic, 2000.
- Vostral, Sharra L. *Toxic Shock: A Social History*. New York: New York University Press, 2018.
- Weisz, George. *Chronic Disease in the Twentieth Century: A History*. Baltimore: Johns Hopkins University Press, 2014.
- Whitehouse, Peter J. , Konrad; Maurer, and Jesse F. Ballenger, eds. *Concepts of Alzheimer Disease: Biological, Clinical, and Cultural Perspectives*. Baltimore: Johns Hopkins University Press, 2003
- Wilson, A. On the History of Disease Concepts: The Case of Pleurisy. *History of Science* 38 Pt 3.121 (2000), 271-319
- Young, Sera L. *Craving Earth: Understanding Pica: The Urge to Eat Clay, Starch, Ice, and Chalk*. New York: Columbia University Press, 2011.

See also special issue, 'Medicine, Crime and Punishment. *Lancet* 364, Supplement December 2004. <http://www.thelancet.com/journals/lancet/specialissue>